## **WEST Search History**

DATE: Thursday, September 19, 2002

Set Name side by side	Query	Hit Count	Set Name result set
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L6	sampl\$4 near4 crystal\$8 near4 precipitat\$4	107	L6
L5	L4 near4 crystal\$8	66	L5
L4	lumen	44433	L4
L3	L1 same crystal\$8	1	L3
L2	L1 near4 crystal\$8	0	L2
L1	microvolume	233	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 11:08:24 ON 19 SEP 2002) FILE 'CAPLUS' ENTERED AT 11:08:40 ON 19 SEP 2002 17490 S LUMEN L1L2 10 S L1 (2A) CRYSTAL? L31 S MICROVOLUME (2A) CRYSTAL? L4 O S MIRCO (1W) VOLUME L5 34 S MICRO (1W) VOLUME L6 1 S L5 AND CRYSTAL? FILE 'STNGUIDE' ENTERED AT 11:17:42 ON 19 SEP 2002 FILE 'INSPEC' ENTERED AT 11:20:21 ON 19 SEP 2002 L7 1 S L2 L8 34 S L3 OP L5

5 S L3 OR L6

L9

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS 1998:109901 CAPLUS AN DN 128:228209 ΤΙ Micro-volume dynamic light scattering and simultaneous video microscopic observation for screening of protein crystal ΑIJ Wessel, Th.; Ricka, J. CS Institute of Applied Physics, University of Bern, Bern, CH-3012, Switz. SO Proceedings of SPIE-The International Society for Optical Engineering (1998), 3199(Biomedical Systems and Technologies II), 299-305 CODEN: PSISDG; ISSN: 0277-786K FΒ SFIE-The International Society for Optical Engineering DTJournal LA English CC 9-16 (Biochemical Methods) Section cross-reference(s): 6 AΒ Dynamic light scattering (DLS), video microscopic and ultra-microscopic observation were simultaneously employed for screening of protein crystal growth in the vapor diffusion regime. The setup, consisting of a modified microscope equipped with a laser sheet (darkfield) illumination for ultra-microscopy, allows the visualization of clusters in the nanometer range as well as of macroscopic crystals parallel with the DLS measurements. The results of microscopic and ultra-microscopic observations, the DLS autocorrelation functions and the resulting relaxation time distributions for the std. protein lysozyme are presented. The special conditions for dynamic light scattering measurements in the pre and post crystn, phase with samples situated in small droplets and covered by a std. crystn. plate are discussed. STdynamic light scattering video microscopy; protein crystal arowth ΙT Light scattering (dynamic; micro-vol. dynamic light stattering and simultaneous video microscopic observation for screening of protein crystal growth) ΙΤ Crystal growth Optical fibers (micro-vol. dynamic light scattering and simultaneous video microscopic observation for screening of protein crystal growth) ITProteins, general, properties FL: FEP (Physical, engineering or chemical process); PRP (Properties); PECC (Process) (micro-vel. dynamic light scattering and simultaneous video microscopic observation for screening of protein crystal growth) ΙT Midresdapy

(video; micro-vol. dynamic light scattering and simultaneous video

microscopic chservation for screening of protein crystal

growth)

ANSWER 6 OF 6 INSPEC COPYRIGHT 2002 IEE 1971:245744 INSPEC Electron-probe microanalysis. Atbomenergie en haar Toepassingen (Dec. 1970) vol.12, no.12, p.321-8 AN TIΑU CODEN: AETPAY ISSN: 0004-7228 SO Journal DTPractical Describes the principles of electron-probe microanalysis and gives details TCof the commercial Cameca machine and its use. The equipment is designed CY for the identification and estimation of the components in a selected LAmicro-volume at the surface of a solid specimen from electron micrographs and by the analysis of the characteristic X-rays emitted when the surface is bombarded by an electron micro-beam. The beam has a diameter of  $0.1-1~\mathrm{mu}$  m, and the equipment can deal with atomic numbers down to 5 (boron), and can detect about 100 p.p.m. in a volume of 10 cubic mu m, the smallest amount detectable being 10-14 g. Identification is via a crystal spectrometer or a scanning counter. Examples are given of the application of the technique to the examination of UB4 particles in a UO2 matrix, of an Al203-UO2 eutectic mixed with an excess of Al203; of Incoloy-800; and of coated particles. A8280 Chemical analysis and related physical methods of analysis electron probe microanalysis; Cameca machine; electron micrographs B\*U; UB4; U cp; cp; B cp; O\*U; UO2; O cp; Al\*O\*U; Al sy 3; sy 3; O sy 3; U CC CTSTsy 3; Al2C3; Al cp; Al2O3-UO2; Al\*O

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